

# Power Inductors – DR0608 Series



- Small footprint power inductors designed for maximum efficiency and low cost.
- Ideal for noise filtering in power amplifiers, power supplies and speaker crossover networks.
- Inductance values from 3.3 to 1000  $\mu$ H, most at 10% tolerance
- Current ratings up to 6.4 Amps with only 0.012 Ohms DCR
- Industry-standard pin spacings; protective PVC sleeve

**Core material** Ferrite

**Terminations** RoHS compliant tin-silver over tin over copper over steel

**Weight:** 1.0 – 1.3 g

**Ambient temperature**  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  with ( $40^{\circ}\text{C}$  rise) Irms current.

**Maximum part temperature**  $+125^{\circ}\text{C}$  (ambient + temp rise). [Derating](#).

**Storage temperature** Component:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .

Tray packaging:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at  $<30^{\circ}\text{C}$  / 85% relative humidity)

**Packaging** 300 parts per tray; 1200 parts in optional fan-fold tape

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCB\\_Washing.pdf](#).

Part number <sup>1</sup>	Inductance <sup>2</sup> ( $\mu$ H)	DCR max (Ohms)	SRF typ <sup>3</sup> (MHz)	Isat (A) <sup>4</sup>			Irms (A) <sup>5</sup>	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
DR0608-332L	3.3 $\pm$ 20%	0.012	40	5.3	6.1	6.4	5.0	7.5
DR0608-472L	4.7 $\pm$ 20%	0.018	36	4.6	5.4	5.8	4.6	6.9
DR0608-562L	5.6 $\pm$ 20%	0.022	32	4.6	5.2	5.5	4.2	6.3
DR0608-682L	6.8 $\pm$ 20%	0.025	30	3.9	4.5	4.8	3.8	5.7
DR0608-822L	8.2 $\pm$ 20%	0.028	25	3.6	4.1	4.4	3.4	5.1
DR0608-103L	10 $\pm$ 10%	0.035	23	3.2	3.6	4.0	3.0	4.5
DR0608-123L	12 $\pm$ 10%	0.045	20	2.8	3.2	3.5	2.8	4.2
DR0608-153L	15 $\pm$ 10%	0.052	19	2.7	3.0	3.2	2.7	4.0
DR0608-183L	18 $\pm$ 10%	0.065	17	2.4	2.7	2.9	2.5	3.7
DR0608-223L	22 $\pm$ 10%	0.078	16	2.1	2.5	2.7	2.3	3.4
DR0608-273L	27 $\pm$ 10%	0.086	12	1.9	2.2	2.4	2.2	3.2
DR0608-333L	33 $\pm$ 10%	0.12	11	1.7	2.0	2.2	2.0	2.9
DR0608-393L	39 $\pm$ 10%	0.13	10	1.6	1.9	2.0	1.8	2.6
DR0608-473L	47 $\pm$ 10%	0.16	9.5	1.4	1.7	1.8	1.7	2.4
DR0608-563L	56 $\pm$ 10%	0.19	9.0	1.3	1.5	1.7	1.5	2.1
DR0608-683L	68 $\pm$ 10%	0.25	9.0	1.3	1.4	1.5	1.3	1.8
DR0608-823L	82 $\pm$ 10%	0.28	7.0	1.2	1.3	1.4	1.2	1.6
DR0608-104L	100 $\pm$ 10%	0.38	6.5	1.0	1.2	1.3	1.0	1.3
DR0608-124L	120 $\pm$ 10%	0.42	6.0	0.96	1.0	1.1	0.94	1.23
DR0608-154L	150 $\pm$ 10%	0.50	5.5	0.83	0.93	1.0	0.88	1.15
DR0608-184L	180 $\pm$ 10%	0.65	5.0	0.76	0.85	0.93	0.82	1.08
DR0608-224L	220 $\pm$ 10%	0.73	4.8	0.73	0.83	0.89	0.76	1.00
DR0608-274L	270 $\pm$ 10%	0.96	4.0	0.69	0.77	0.82	0.70	0.93
DR0608-334L	330 $\pm$ 10%	1.11	3.7	0.60	0.68	0.72	0.64	0.85
DR0608-394L	390 $\pm$ 10%	1.25	3.0	0.59	0.66	0.70	0.58	0.78
DR0608-474L	470 $\pm$ 10%	1.60	2.8	0.50	0.56	0.61	0.52	0.70
DR0608-564L	560 $\pm$ 10%	1.85	2.5	0.47	0.53	0.56	0.46	0.63
DR0608-684L	680 $\pm$ 10%	2.40	2.5	0.43	0.48	0.51	0.40	0.55
DR0608-824L	820 $\pm$ 10%	2.70	2.1	0.40	0.45	0.48	0.34	0.48
DR0608-105L	1000 $\pm$ 10%	3.00	2.1	0.35	0.40	0.43	0.30	0.40

1. To order parts packaged in optional fanfold tape (1200 parts per box), add the letter "F" at the end of the part number, e.g. DR0608-824LF
2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR-meter or equivalent.
3. SRF measured using an Agilent/HP 4191A or equivalent.

4. DC current at  $25^{\circ}\text{C}$  that causes the specified inductance drop from its value without current. [Click for temperature derating information](#).
5. Current that causes the specified temperature rise from  $25^{\circ}\text{C}$  ambient. This information is for reference only and does not represent absolute maximum ratings. [Click for temperature derating information](#).
6. Electrical specifications at  $25^{\circ}\text{C}$ .



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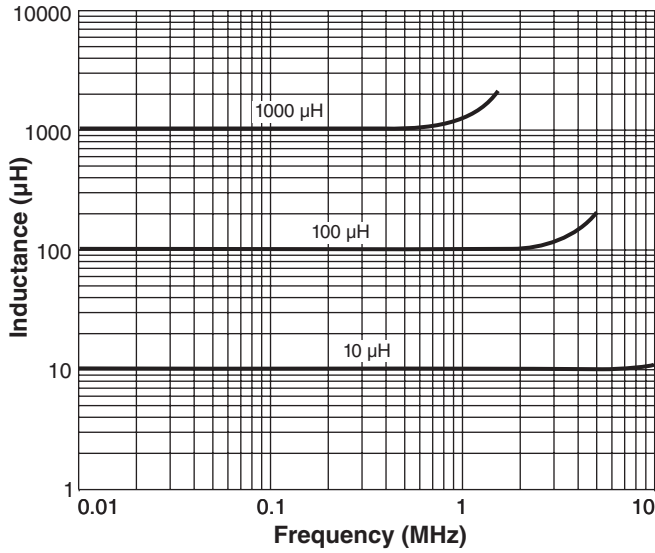
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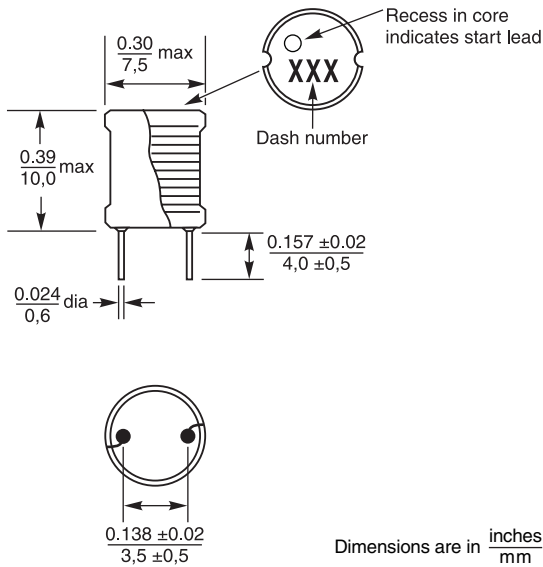
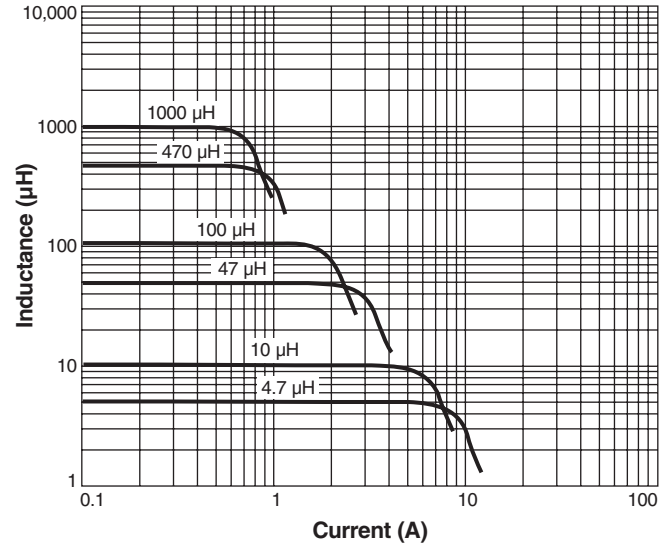


# Power Inductors - DR0608 Series

## Typical L vs Frequency



## Typical L vs Current



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$



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